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May 27, 2005

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Hornng-Juing LEE		
Title:	Method and System for Video Delivery Over Data Networks		
Application No.:	09/658,705	Filing Date:	September 8, 2000
Examiner:	Jerry B. Dennison	Group Art Unit:	2143
Docket No.:	STRM.001US1	Conf. No.:	3627

PROPOSED CLAIMS ACCOMPANYING
INTERVIEW REQUEST FORM

1. (Currently amended) A method of caching in a system for transmitting a plurality of media data titles to one or more client(s) from a central server and a proxy server located in a network-environment, said proxy server located in the network between the central server and the one or more client(s), wherein each media data title is divided into blocks to be transmitted to the one or more client(s) in a time sequence, and each block is divided into sub-blocks, comprising:

identifying which sub-blocks from different blocks of each media data title that are to be cached, wherein the identified sub-blocks include sub-blocks that are distributed over the blocks of at least one media data title;

caching only the identified sub-blocks at the proxy server to reduce the transmission bit rate of the central server in the network environment for transmitting data in the media data titles to the proxy server; and

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combining sub-blocks of a media data title cached at the proxy server with sub-blocks of the media data title not cached at the proxy server and transmitted from the central server to the proxy server through the network, for delivery to the one or more client(s).

28. (Currently amended) A system for delivering media information; the system comprising:

a plurality of proxy servers, each servicing a number of terminal devices and receiving a request from one of said terminal devices when a user of said one of said terminal devices desires for a media title among a plurality of media titles; each of said proxy servers comprising a cache memory for storing units of at least some of the media titles; wherein the number of units of each of said at least some media data titles is determined by a request frequency to said each of said media data titles; and

a central media server coupled to said proxy servers in a network ~~environment~~, said proxy servers located in the network between the central server and one or more client(s), wherein the central server transmits data in the media data titles to the proxy servers, and each of the proxy servers transmits data in the media data titles to one or more client(s);

said central media server having a storage space for storing a plurality of said media data titles and providing data from one or more of said media data titles when receiving a proxy request from one of said proxy servers, said cache memory of said one proxy server caching only some but not all of the units of said one or more media data titles, said one proxy server combining cached units with uncached units received through the network from the central server to form a data stream of complete media data title(s) and transmitting such media data title(s) to one or more client(s), so that the transmission bit rate of the central media server in the network ~~environment~~ for transmitting data from the at least some media data titles to said one of the proxy servers is reduced.

29. (Currently amended) A system for delivering media information; the system comprising:

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a plurality of proxy servers, each servicing a number of terminal devices and receiving a request from one of said terminal devices when a user of said one of said terminal devices desires a media title from a plurality of media titles; wherein at least one of said proxy servers comprises a cache memory storing a number but not all of units of at least one of said titles; wherein the units of the at least one title stored are distributed over such title; and

a central server coupled to said proxy servers in a network-environment, said proxy servers located in the network between the central server and one or more client(s), wherein the central server transmits data in the media data titles to the proxy servers, and the proxy servers transmit data in the media data titles to one or more client(s); said central server having a storage space for storing a plurality of said titles and providing data from one of said titles when receiving a proxy request from said at least one of said proxy servers, said cache memory of said at least one proxy server caching only some but not all of the units of said at least one media title, said at least one proxy server combining the cached units with uncached units received through the network from the central server to form a data stream of a complete media title and transmitting such title to one or more client(s), so that the transmission bit rate of the central server in the network environment-for transmitting the at least one title to said at least one proxy server is reduced.

38. (Currently amended) A method of caching in a system for transmitting a plurality of data titles to one or more client(s) from a central server and a proxy server in a network-environment, said proxy server located in the network between the central server and the one or more client(s), wherein each title is divided into blocks to be transmitted to the one or more client(s) in a time sequence, and each block is divided into sub-blocks, comprising:

identifying which sub-blocks from different blocks of each title that are to be cached, wherein the identified sub-blocks include sub-blocks that are distributed over the blocks of at least one title;

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caching only the identified sub-blocks at the proxy server to reduce the transmission bit rate of the central server in the network ~~environment~~ for transmitting data in the data titles to the proxy server; and

combining sub-blocks of a title cached at the proxy server with sub-blocks of the title not cached at the proxy server and transmitted from the central server through the network to the proxy server, for delivery to the one or more client(s).

41. (Currently amended) A computer readable storage device embodying a program of instructions executable by a computer to perform a method of caching in a system for transmitting a plurality of media data titles to one or more client(s) from a central server and a proxy server in a network ~~environment~~, said proxy server located in the network between the central server and the one or more client(s), wherein each title is divided into blocks to be transmitted to the one or more client(s) in a time sequence, and each block is divided into sub-blocks, said method comprising:

identifying which sub-blocks from different blocks of each title that are to be cached, wherein the identified sub-blocks include sub-blocks that are distributed over the blocks of at least one title;

caching the identified sub-blocks under the control of the proxy server to reduce the transmission bit rate of the central server in the network ~~environment~~ for transmitting data in the media data titles to the proxy server; and

combining sub-blocks of a title cached at the proxy server with sub-blocks of the title not cached at the proxy server and transmitted from the central server through the network to the proxy server, for delivery to the one or more client(s).

68. (Currently amended) A method for transmitting a program of instructions executable by a computer to perform a process of caching in a system for transmitting a plurality of media data titles to one or more client(s) from a central server and a proxy server in a network ~~environment~~, said proxy server located in the network between the central server and the one or more client(s), wherein each title is divided into blocks to be

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transmitted to the one or more client(s) in a time sequence, and each block is divided into sub-blocks, said method comprising:

transmitting to a client device a program of instructions; and

enabling the client device to perform, by means of such program, the following process:

identifying which sub-blocks from different blocks of each title that are to be cached, wherein the identified sub-blocks include sub-blocks that are distributed over the blocks of at least one title; and

caching the identified sub-blocks under the control of the proxy server to reduce the transmission bit rate of the central server in the network environment for transmitting data in the media data titles to the proxy server; and

combining sub-blocks of a title cached at the proxy server with sub-blocks of the title not cached at the proxy server and transmitted from the central server through the network to the proxy server, for delivery to the one or more client(s).

Respectfully submitted,

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Date